

# SCIENCE FAIR 2012 STUDENT CONTRACT



I understand that I am choosing to complete a Science Fair Project that meets the following requirements:

- I will do all my work **independently** or with my partner(s), only allowing parents/advisors to help if the experiment could be dangerous or require materials that I cannot purchase/handle independently.
- I will apply the steps of the scientific method.
- I will set up and conduct my experiment(s).
- I will collect and analyze data.
- I will organize my information and experiment neatly and thoroughly.
- I will complete a minimum of **8** journal entries:
  - An entry will be made every time I work on my project, both with and without my advisor.
  - The entries will be dated and well organized as follows:
    - The QUESTION and HYPOTHESIS will be clearly stated.
    - Experiment plans, or PROCEDURE, and MATERIALS needed will be outlined.
    - OBSERVATIONS made and/or DATA collected will be entered; with use of simple drawings, charts, graphs etc., as needed.
    - RESULTS will be shown; using simple drawings, charts, graphs etc. to prepare for the poster.
    - CONCLUSIONS must be included in the final entries.
- I will summarize my experiment and results on a tri-fold poster.
- I will present my project at the Science Fair on Saturday, March 31<sup>st</sup> 2012 from 9:30am to 12:00pm and on Monday, April 2, 2012 for a student assembly.

Student Name \_\_\_\_\_ Grade/Teacher \_\_\_\_\_

Partner's Name (if applicable) \_\_\_\_\_

Parent Advisor (if known) \_\_\_\_\_

Project Idea \_\_\_\_\_

Signature of Parent/Guardian \_\_\_\_\_ Date \_\_\_\_\_

Parent Contact email \_\_\_\_\_ Phone number \_\_\_\_\_

**CONTRACT MUST BE RETURNED TO YOUR TEACHER BY  
TUESDAY JANUARY 17<sup>TH</sup>, 2012**

## CEDAR HILL SCHOOL SCIENCE FAIR 2012 SUGGESTED TIMELINE

### **NOW - JANUARY 17<sup>TH</sup>:**

- Discuss the Science Fair with your parents.
- Decide if you want to participate.
- Do you want to work with a partner? If yes, decide who your partner will be.
- Think of a project idea (see *IDEAS A to Z for suggestions*).
- Sign up by **January 17<sup>th</sup>** by completing a contract.

### **END OF JANUARY:**

- Groups are formed and parent advisors receive their resource packet.
- Mrs. Scully will hold an optional information meeting for parents.

*Students begin working on their projects with the goal of making a weekly journal entry. Group meetings with advisors approximately every 2 weeks is recommended, to ensure progress according to the following guidelines:*

### **EARLY FEBRUARY:**

- Identify the question/problem.
- State the hypothesis.
- Outline your procedure.

### **LATE FEBRUARY:**

- Obtain all necessary materials.
- Begin conducting experiments, as appropriate.
- Begin recording observations and data.

### **EARLY MARCH:**

- Complete experiments.
- Compile observations and data.
- Summarize results in diagrams, charts, and/or graphs as appropriate.

### **LATE MARCH:**

- Make your conclusions.
- Prepare the poster presentation.
- Rehearse for the Big Day!



## **CEDAR HILL SCHOOL SCIENCE FAIR**

## **IDEAS A TO**

### **Z...**

**Which paper towel is the most ABSORBENT?**

**Which brand of BATTERY lasts the longest?**

**Which household CLEANERS work best?**

**How does DAY LIGHT affect plant growth?**

**What happens when things DISSOLVE?**

**What is EVAPORATION?**

**Why do FIREFLIES glow?**

**What is FRICTION?**

**What goes up, must come down – explore GRAVITY!**

**Which GUM makes the best bubbles?**

**Which object/material is HARDER?**

**What is the best way to melt ICE?**

**How much JUICE is in fruit?**

**What is the best KINDLING for a fire?**

**How does my KNEE work?**

**How do animals LEARN?**

**How do LIGHT BULBS work?**

**Does reading aloud affect MEMORY?**

**Can you make MUSIC with glasses of water?**

**Which are the hardest NUTS to crack?**

**Why is the OCEAN salty?**

**What does a PLANT need to grow?**

**Are you ALLERGIC?**

**How does BOAT shape/size affect floating ability?**

**How do CRYSTALS form?**

**Which DETERGENT gets which stains out?**

**How does EXERCISE affect heart rate?**

**Are all FINGERPRINTS really different?**

**What FLOATS in water?**

**How do GEODES form?**

**Which GUM has the longest lasting flavor?**

**Does HEIGHT affect how long you can hold your breath?**

**What materials make the best INSULATORS?**

**How high can you JUMP, and why?**

**What is the best KITE shape for flying?**

**What is LAVA?**

**Do LEFT-HANDED people have similar traits?**

**How do MAGNETS work?**

**How do our MUSCLES get stronger?**

**Why are some animals NOCTURNAL?**

**How do the planets stay in ORBIT?**

**How is PERFUME made?**

**How do PULLEYS work?**

**Any QUESTION your child can think of!!!**

Why does it RAIN ?

What's inside a ROCK?

What shape ROCKET flies best?

How do we SMELL?

Could it ever be too cold to SNOW?

How does SOAP work to get us clean?

What is the best kind of SOIL for flowers?

What is SOLAR ENERGY?

How is SOUND made?

Is a SWEET TOOTH inherited?

How do we TASTE?

Does TEMPERATURE affect mold growth?

How does oven TEMPERATURE affect baking TIME?

Why should we brush our TEETH?

What is the shape of a TORNADO?

What lives UNDER rocks and why?

What lives UNDERWATER and why?

Does playing VIDEO GAMES affect heart rate? Why do VOLCANOES erupt?


How does WEIGHT affect SPEED? How does WIND make it cooler?

**And X, Y, and Z are up to you!!!**

For endless ideas please visit: [www.sciencefairsanity.com](http://www.sciencefairsanity.com) [www.education.com/science-fair](http://www.education.com/science-fair)  
[chemistry.about.com/od/sciencefairprojectideas](http://chemistry.about.com/od/sciencefairprojectideas)

**WANT TO REALLY SPARK YOUR CHILD'S INTEREST OVER THE HOLIDAY BREAK?**

- **CHECK OUT LIBERTY SCIENCE CENTER'S:**

-  12/21-1/1: The 12 Days of Science



**ENJOY DIFFERENT ACTIVITIES DAILY DURING THE 12 DAYS OF SCIENCE. FUN FOR THE WHOLE FAMILY!**

**VISIT [LSC.ORG](http://LSC.ORG) FOR MORE DETAILS**